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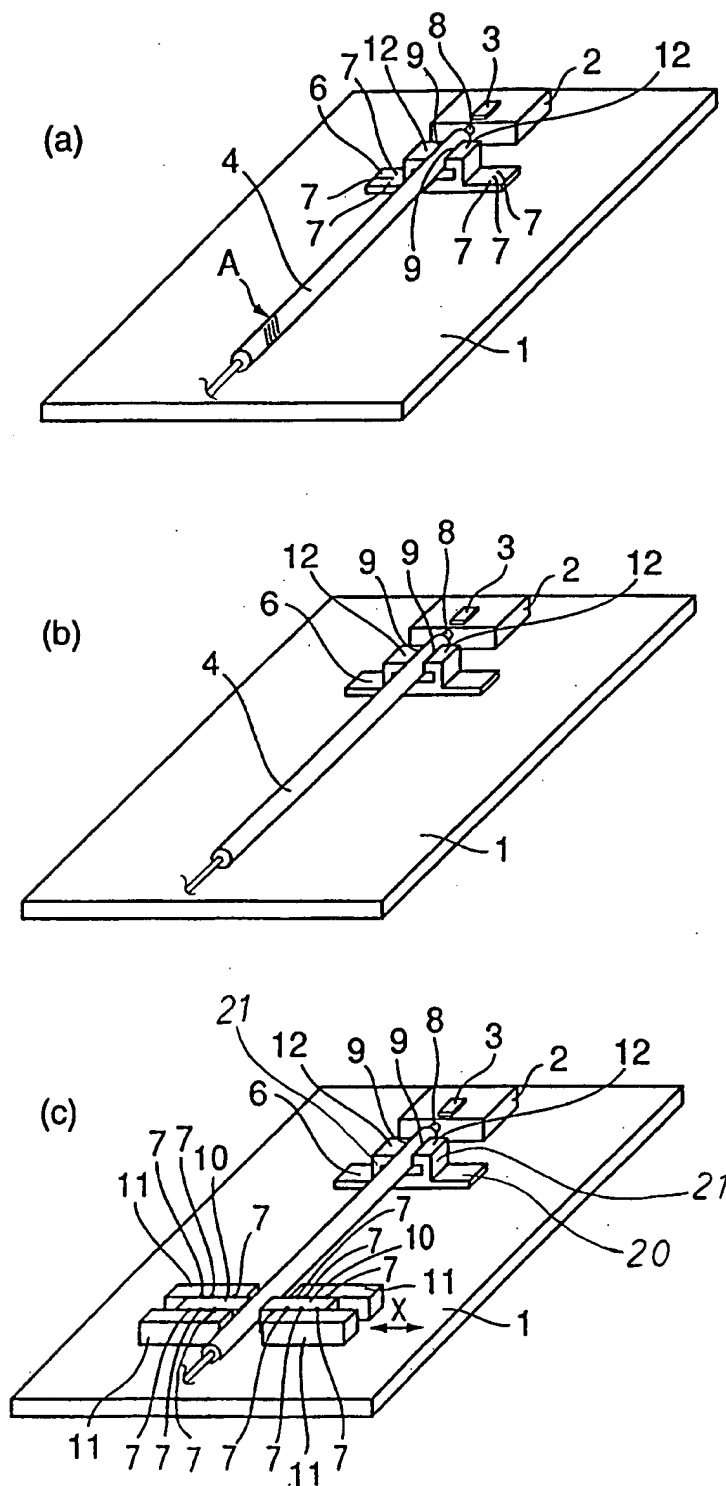
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特許協力条約に基づいて公開された国際出願

<p>(51) 国際特許分類7 G02B 6/42, H01S 5/022</p>	<p>A1</p>	<p>(11) 国際公開番号 WO00/29890</p> <p>(43) 国際公開日 2000年5月25日(25.05.00)</p>
<p>(21) 国際出願番号 PCT/JP99/06288</p> <p>(22) 国際出願日 1999年11月11日(11.11.99)</p> <p>(30) 優先権データ 特願平10/341145 1998年11月13日(13.11.98) JP</p> <p>(71) 出願人 (米国を除くすべての指定国について) 古河電気工業株式会社 (THE FURUKAWA ELECTRIC CO., LTD.)[JP/JP] 〒100-8322 東京都千代田区丸の内2丁目6番1号 Tokyo, (JP)</p> <p>(72) 発明者; および (75) 発明者/出願人 (米国についてのみ) 入江雄一郎(IRIE, Yuichiro)[JP/JP] 三代川純(MIYOKAWA, Jun)[JP/JP] 清水健男(SHIMIZU, Takeo)[JP/JP] 〒100-8322 東京都千代田区丸の内2丁目6番1号 古河電気工業株式会社内 Tokyo, (JP)</p> <p>(74) 代理人 五十嵐清(IGARASHI, Kiyoshi) 〒220-0011 神奈川県横浜市西区高島2丁目10番13号 横浜東口ビル908号室 Kanagawa, (JP)</p>		<p>(81) 指定国 CA, US, 欧州特許 (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE)</p> <p>添付公開書類 国際調査報告書</p>
<p>(54)Title: LASER DIODE MODULE AND ITS MANUFACTURE METHOD</p> <p>(54)発明の名称 レーザダイオードモジュールおよびその作製方法</p> <div> </div> <p>(57) Abstract</p> <p>A laser diode module which can be manufactured easily in a short time at low cost and has a high long-term reliability and its manufacturing method are disclosed. A lensed fiber (8) is aligned with a laser diode device (LD device) (3). The front sides of a ferrule (4) near the LD device (3) are made held portions (9) and sandwiched by a ferrule support component (6). The rear sides of the ferrule (4) are moved around the held portions (9) and thereby the lensed fiber (8) is re-aligned with the LD device (3). On both sides of the rear of the ferrule (4), ferrule fixing components (10) guided by guide sections (11) are provided at intervals of about 0 to 5 μm between the ferrule (4) and the ferrule fixing components (10). After the ferrule fixing components (10) are fixed to the guide sections (11), the ferrule (4) is welded to the ferrule fixing components (10) by a YAG laser beam.</p>		

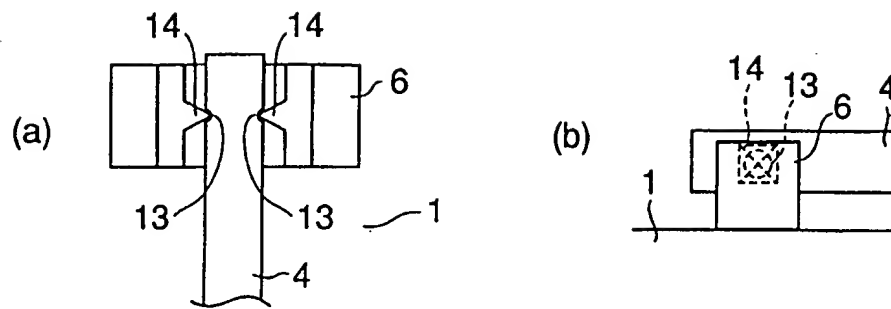
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第1図

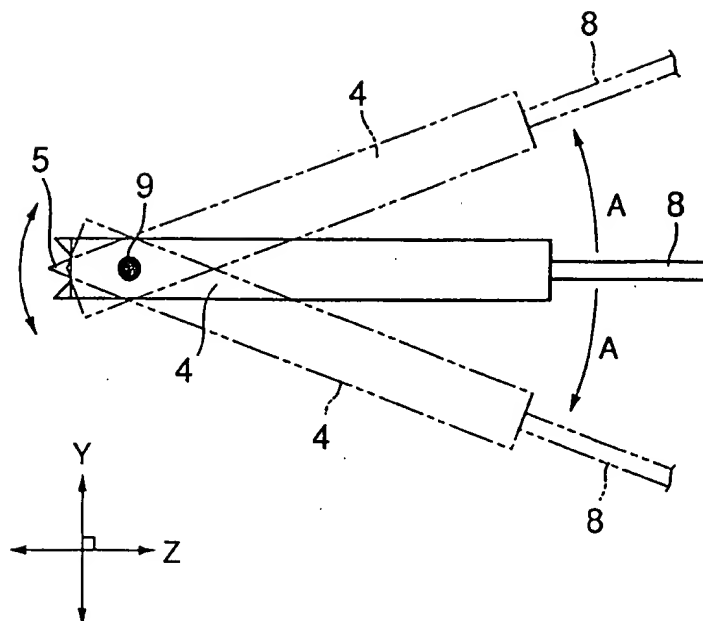


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第 2 図

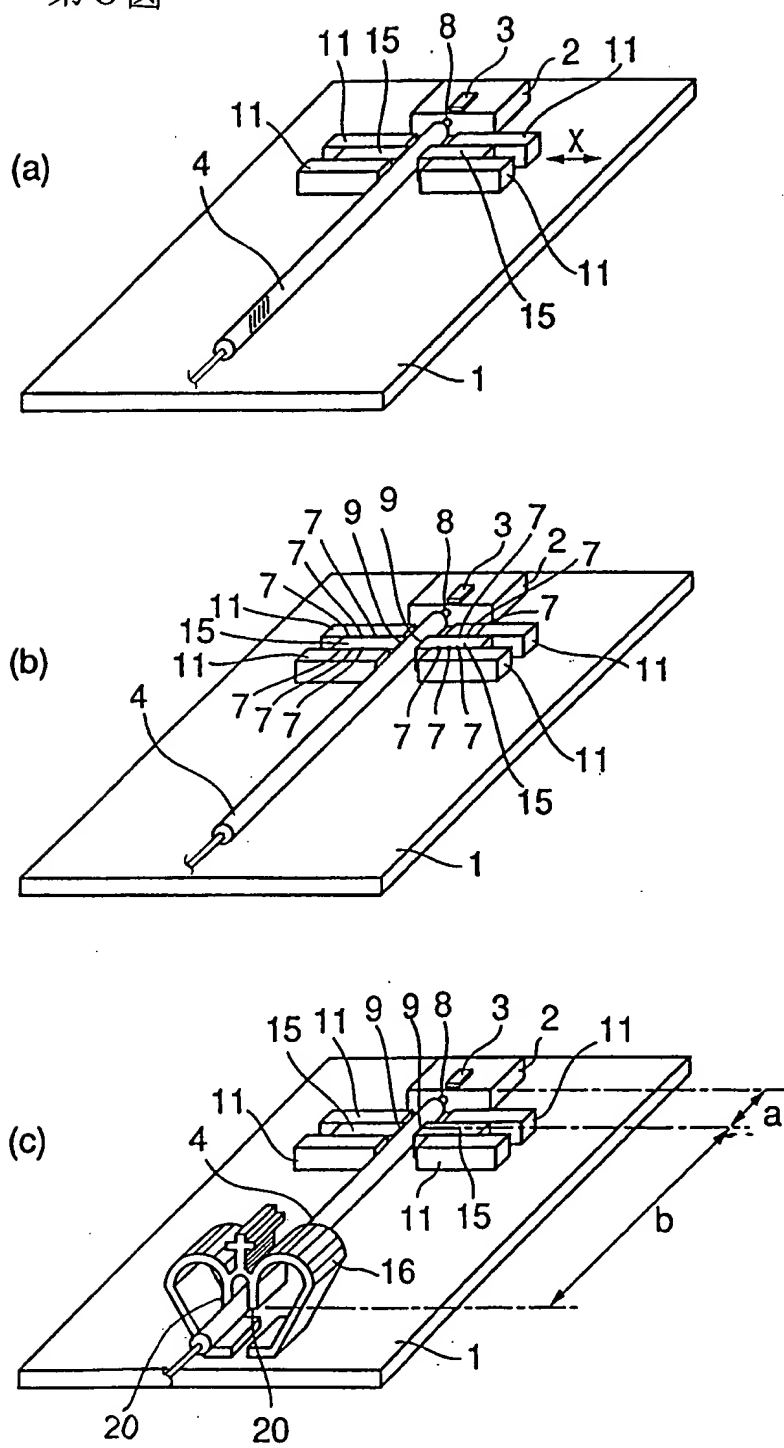


第 4 図



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第3図



INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP99/06288

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl.⁷ G02B6/42, H01S5/022

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl.⁷ G02B6/42-6/43, H01S5/022

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho	1922-1996	Toroku Jitsuyo Shinan Koho	1994-2000
Kokai Jitsuyo Shinan Koho	1971-2000	Jitsuyo Shinan Toroku Koho	1996-2000

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

JICST (JOIS)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP, 2-284106, A (Japan Aviation Electron Ind. Ltd.), 21 November, 1990 (21.11.90) (Family: none)	1-5
P, A	JP, 11-160581, A (The Furukawa Electric Co., Ltd.), 18 June, 1999 (18.06.99) (Family: none)	1-5



Further documents are listed in the continuation of Box C.



See patent family annex.

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Date of the actual completion of the international search
03 February, 2000 (03.02.00)Date of mailing of the international search report
15 February, 2000 (15.02.00)Name and mailing address of the ISA/
Japanese Patent Office

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